

Optical spectroscopy using biphotons

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Abstract

The possibilities of spectroscopic investigations by means of correlated photon pairs (biphotons) generated in spontaneous parametric down-conversion are analyzed. It is shown that modulation of the single-photon wave packets allows one to determine the form of absorption line even if spectral width of that is much less than spectral resolution of monochromator.

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Keywords

Biphotons, Quantum optics, Spectroscopy